## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	<u>10/677,983</u> A
Source:	, IFWO
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PATENT APPLICATION: US/10/677,983A TIME: 15:57:28

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Output Set: N:\CRF4\01062005\J677983A.raw

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3 <110 > APPLICANT: FELDER, ROBIN A.
        JOSE, PEDRO
 6 <120> TITLE OF INVENTION: G PROTEIN-RELATED KINASE MUTANTS IN ESSENTIAL
        HYPERTENSION
 9 <130> FILE REFERENCE: FELDER 3.9-001 CONT DIV
11 <140> CURRENT APPLICATION NUMBER: 10/677,983A
12 <141> CURRENT FILING DATE: 2003-10-02
14 <150> PRIOR APPLICATION NUMBER: 09/614,748
15 <151> PRIOR FILING DATE: 2000-07-12
17 <150> PRIOR APPLICATION NUMBER: PCT/US99/00663
18 <151> PRIOR FILING DATE: 1999-01-12
20 <150> PRIOR APPLICATION NUMBER: 60/071,199
21 <151> PRIOR FILING DATE: 1998-01-12
23 <150> PRIOR APPLICATION NUMBER: 60/098,279
24 <151> PRIOR FILING DATE: 1998-08-28
26 <160> NUMBER OF SEQ ID NOS: 34
28 <170> SOFTWARE: PatentIn Ver. 2.1
30 <210> SEQ ID NO: 1
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45 Ile Glu Lys Asp Tyr Ser Ser Leu Cys Asp Lys Gln Pro Ile Gly Arg
48 Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Thr Leu Lys Arg His
                                            75
51 Ile Glu Phe Leu Asp Ala Val Ala Glu Tyr Glu Val Ala Asp Asp Glu
54 Asp Arg Ser Asp Cys Gly Leu Ser Ile Leu Asp Arg Phe Phe Asn Asp
               100
                                   105
57 Lys Leu Ala Ala Pro Leu Pro Glu Ile Pro Pro Asp Val Val Thr Glu
                               120
60 Cys Arg Leu Gly Leu Lys Glu Glu Asn Pro Ser Lys Lys Ala Phe Glu
                           135
63 Glu Cys Thr Arg Val Ala His Asn Tyr Leu Arg Gly Glu Pro Phe Glu
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66 Glu Tyr Gln Glu Ser Ser Tyr Phe Ser Gln Phe Leu Gln Trp Lys Trp

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69 Leu Glu	Ara Gla		al Thr	Tare 2			Dhe	Δνα	чіс	Tur		val.
70	180	PIO V	ar IIII	-	185	1111	FIIC	Ary	птъ	190	Arg	vai
72 Leu Gly		Glv D	he Glv			Cve	<b>Δ</b> 1 =	Cve	Gln		Δνα	<b>Δ</b> ] =
72 Eca Gry	195 GIY	GIY I	ne dry	200	var	Cys	nia	Cys	205	vai	Arg	AIG
75 Thr Gly		ጥν Δ	la Cve		ī.ve	T.e.11	Gl n	Lare		Δνα	Tla	Lare
76 210	шув мес	IYI A	215	nys i	цуз	neu		220	цув	ni 9	116	цуь
78 Lys Arg	Lve Clv	Glu A		ז בות	[.01]	λαη			7.20	Tla	LOU	Glu
79 225	nys Gry		30	AIA I	Leu .		235	пуъ	Arg	TIE	neu	240
81 Lys Val	Cln Cor			37-3 (	C 0 20			TT	21.	T	~1	
82	GIN SEL	245	ne vai	vaı .		250	мта	ıyı	нта	ıyı	255	1111
84 Lys Asp	Ala Tou		011 170 ]	T 011 5			Mot	7 ~~	C1	C1		Ton
85	260	суѕ ц	eu vai		265	116	met.	WPII	GIY	270	Asp	цец
87 Lys Phe		Tree 7	an Lau			Dwo	~1	Dho	7 ~~		~1 n	7~~
88	275	TYL A	sii nea	280	ASII	PIO	GIY	FIIE	285	Giu	GIII	Arg
90 Ala Val		ת בות	la Clu		٠,٠	Carc	C1.,,	T 011		λαn	T 011	C15
91 290	File Tyl	ALC A	295	пец (	cys	Cys	_	300	GIU	Asp	пеп	GIII
93 Arg Glu	Ara Ile	ת וכע		Acn I	[.au	Larc			λαη	Tla	Lou	Tau
94 305	Arg IIe		10	Asp I	ueu	-	315	GIU	ASII	116	цец	320
96 Asp Asp	Ara Clu			Tla	car			G1 17	Lou	מות	ጥኮሎ	
97	Arg Gry	325	re Arg	116		330	Deu	Gry	ЦСи	ліа	335	GIU
99 Ile Pro	Glu Glv		ra Val	Ara (			Val.	G137	Thr	t/al		ጥላም
100 .	340		ra var	Arg (	345		vai	GLY	1111	350		I Y I
102 Met Ala			Val Agr	Δen			Tur	Thr	Dhe			λen
103	355		vai noi	360	014	Буб	- 7 -	1111	365			, rob
105 Trp Trp		ı Glv	Cve Ten		ጥህን	G111	Met	Tle			Hic	Ser
106 370	_	2 017	375		- 7 -	014		380				, 502
108 Pro Phe		. Tvr			Val	Lvs	Tro			Val	Asr	Gln
109 385	-11-	_	390	,_		_, _	395					400
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114 Ala Lys	Ser Ile		Ara Met	Leu	Leu		Lvs	Asn	Pro	Ser	_	
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121 450	_		455	_				460				
123 Pro Phe	Cys Pro	gaA c	Pro His	Ala	۷al	Tyr	Cys	Lys	Asp	Val	Leu	Asp
124 465	•	_	470			•	475	-	-			480
126 Ile Glu	Gln Phe	e Ser	Ala Val	Lys	Gly	Ile	Tyr	Leu	Asp	Thr	Ala	Asp
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		400			_,							
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129 Glu Asp 130	Phe Ty:	Ala	Arg Phe	Ala	Thr 505	Gly	Cys	Val	Ser	11e 510		Trp
130	500	Ala i			505	_	_			510		_
	500	Ala i			505	_	_			510 Asn		_
130 132 Gln Asn 133	500 Glu Met 515	Ala i	Glu Ser	Gly 520	505 Cys	Phe	Lys	Asp	Ile 525	510 Asn	Lys	Ser
130 132 Gln Asn	500 Glu Met 515 Glu Glu	Ala i	Glu Ser	Gly 520 Leu	505 Cys	Phe	Lys	Asp	Ile 525 Asn	510 Asn	Lys	Ser
130 132 Gln Asn 133 135 Glu Ser 136 530	500 Glu Met 515 Glu Glu	Ala i	Glu Ser Leu Pro 535	Gly 520 Leu	505 Cys Asp	Phe	Lys	Asp Lys 540	Ile 525 Asn	510 Asn Ile	Lys His	Ser
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278 Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Ile Leu Lys Arg His
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Input Set : A:\Felder39.app
Output Set: N:\CRF4\01062005\J677983A.raw

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288	<b>~</b>	3	115	<b>~1</b>	T	T	<b>a</b> 1	120	*	D	0	T	125	<b>37</b> -	D)	<b>~</b> 1
	Cys	-	ьeu	GIY	ьeu	ьys		Glu	Asn	Pro	ser	_	гуѕ	Ala	Pne	GIU
291	~-3	130	1	_			135	_	_	_	_	140	~3	_	_,	
		Cys	Thr	Arg	Val		His	Asn	Tyr	Leu	_	GIY	GIu	Pro	Phe	
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	Glu	Tyr	Gln	Glu		Ser	Tyr	Phe	Ser	Gln	Phe	Leu	Gln	Trp	Lys	$\mathtt{Trp}$
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306		210					215					220				
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309	225					230					235					240
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312					245					250					255	
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318	-		275		•			280			•		285			J
320	Ala	Val	Phe	Tyr	Ala	Ala	Glu	Leu	Cys	Cys	Gly	Leu	Glu	Asp	Leu	Gln
321		290		-			295		•	•	-	300		-		
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	Met	Ala	Pro		Val	Val	Asn	Asn		Lvs	Tvr	Thr	Phe		Pro	Asp
333			355					360		-1-	-1-		365			E
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345		_,_		420	0,0	**** 9		LCu	425		<b>1</b> ,5	11011		430	<b>-</b> 75	9
	Leu	Glv	Cvs		Glv	Glu	Glv	Ala		Glv	Val	Lvs	Gln		Pro	Val
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	Dho	Lare		Tla	λen	Dhe	Ara	Arg	T.011	Glu	λla	λcn		Τ.Δ11	Glu	Dro
351	1110	450	nop	110	ASII	1110	455	nrg	DCu	GIU	AIU	460	Mec	шец	GIU	110
	Dro		Cvc	Dro	'nan	Dro		Ala	Wa l	Пага	Ctra		7 cn	77-1	T 011	7 cn
354		FIIC	Cys	FIO	Азр	470	птэ	AIG	vaı	ıyı		пур	Asp	vai	ьеи	
		G1	G1 m	Dha	C~~		77-1	T **~	<i>c</i> 1	т1 ~	475	T 0	7 ~~	mh~	77-	480
357	116	GIU	GIII	FIIE	485	нта	vaı	Lys	GIY		TAT	neu	wsb	TIII		Asp
	<b>~1</b>	7. ~~	Dha	Тъ		7 ~~~	Dha	77-	mb~	490	C	17-7	0	т1 -	495 Dro	П~~
	GIU	Asp	riie	_	AIG	Arg	rne	Ala		στλ	cys	val	ser		PLO	rrp
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VERIFICATION SUMMARY

DATE: 01/06/2005

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